



**MISSOURI
DEPARTMENT OF
NATURAL RESOURCES**

Show Me Regional Sanitary Landfill Information Sheet

November 2010

History

Show Me Regional Sanitary Landfill located near Warrensburg in Johnson County was permitted in 1993 under Permit Number 0110105. The facility is owned by Republic Services, Inc. The landfill disposal area is approximately 45.4 acres in size. Landfill gas was originally detected on the landfill property line in 2001. A Notice of Violation was issued on September 17, 2001, due to the detection of gas above regulatory limits. The facility has been working with the department to reduce methane concentrations by proposing and constructing a gas extraction system (approved on July 1, 2003), modifying the gas extraction system (approved September 14, 2006), proposing a remediation plan on July 6, 2007, and constructing gas probes to determine the extent of methane gas migration (July 2008 and December 2009).

Methane Migration and Monitoring Wells

In response to ongoing methane violations, the department issued Show Me Regional Sanitary Landfill a Notice of Violation (NOV) on November 2, 2010. Gas monitoring well GP-02 exceeded the regulatory limit for methane at the property boundary for each reporting period within the past year. A map showing the location of the gas monitoring well is attached.

Summary of Recent Activity at Site

Republic Services, Inc. has been asked to notify the local fire department and send notification letters to both the fire department and property owners who are within 1,000 feet of the well with elevated methane concentrations. Republic Services, Inc. has also been asked to offer to conduct monitoring inside structures and provide methane detectors to those who desire these safety precautions.

Republic Services, Inc. has been proactive in the response to gas migration at the site. Republic Services, Inc. has placed gas probes along the landfill boundary and has researched possible migration pathways in the area in order to determine the extent of gas migration. Republic Services, Inc. is in the process of placing more gas probes to find the gas migration extent.

If a property owner receives a notification letter from a landfill, they are being sent the letter as a precautionary measure to ensure they are aware of the potential for landfill gas migration in the area. Landfill gas is a term for a mixture of gases generated during the decomposition of waste at a landfill and includes methane (CH₄), carbon dioxide (CO₂) and trace constituents of many

other contaminants. The migration of methane from a landfill is a concern because methane is explosive within a certain range of concentrations. Methane is a colorless and odorless gas. The department encourages property owners or tenants to be aware of the potential for methane migration in the area.

The department's Solid Waste Management Program will continue working with Show Me Regional Sanitary Landfill to develop and implement a remedial system that reduces methane concentrations in monitoring wells at the property boundary and controls it on-site.

For More Information

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